

HAZARDOUS MATERIALS DATA SHEET
(PLEASE COMPLETE APPLICABLE SECTIONS)

1. PRODUCT NAME, NUMBER, SYNONYM: ALODINE #1500
2. MANUFACTURER'S NAME: Amchem Products Inc
3. MANUFACTURER'S ADDRESS: ANBLER, PENNA 19002
4. PROCEDURE IN CASE OF BREAKAGE OR LEAKAGE: _____

5. TRANSPORTATION AND STORAGE REQUIREMENTS: _____

6. FIRST AID TREATMENT:

A. SKIN CONTACT: _____

B. EYE CONTACT: _____

C. INHALATION: _____

D. ANTIDOTE IN CASE OF SWALLOWING: _____

7. PHYSIOLOGICAL PROPERTIES:

A. ACUTE ORAL TOXICITY: _____

B. LOCAL EFFECTS UPON EYES: _____

C. LOCAL EFFECTS UPON SKIN: _____

D. ESTIMATE OF ACUTE HAZARD BY INHALATION (VOLATILE MATERIALS): _____

E. WARNING PROPERTIES (ODOR, IRRITATION TO EYES, NOSE OR THROAT): _____

F. ESTIMATED THRESHOLD LIMIT VALUE (IF NOT ON CURRENT LIST BY AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS): _____

8. CHEMICAL AND PHYSICAL PROPERTIES:

A. SPECIFIC GRAVITY (WATER = 1) _____

B. VAPOR DENSITY (AIR = 1) _____

C. VAPOR PRESSURE mm Hg AT 25°C. _____

D. pH _____

E. CORROSIVE ACTION ON COMMON MATERIALS SUCH AS: ALUMINUM, MAGNESIUM, PLEXIGLAS, RUBBER, LACQUERS, ENAMELS, FABRICS: _____

F. DOES THE MATERIAL DECOMPOSE WHEN EXPOSED TO AIR? WATER? HEAT? STRONG OXIDIZERS? _____

G. FOR MIXTURES GIVE THE PERCENTAGE COMPOSITION OF INGREDIENTS:

	COMPOUND	PERCENT
LIQUID CONCENTRATED	CHROMIC ACID	3-7 "TLV" = 0.1 mg/m ³
	COMPLEX FLUORIDE SALTS	2-4 TLV = 2.5 mg/m ³
	WATER	90-95

NOTE: GENERALIZATIONS SUCH AS PETROLEUM HYDROCARBONS, ALCOHOL, KETONES, CHLORINATED HYDROCARBONS, ETC., ARE NOT ADEQUATE FOR TOXICOLOGICAL EVALUATION. PROPER CHEMICAL NAMES MUST BE KNOWN.

H. DOES THE MATERIAL GENERATE HEAT THROUGH POLYMERIZATION OR CONDENSATION? _____

9. PRECAUTIONS FOR NORMAL CONDITIONS OF USE: _____

10. RECOMMENDED PROTECTIVE EQUIPMENT: _____

11. A. FLASHPOINT °F; CLOSED CUP _____; OPEN CUP _____; IF F.P. CHANGES DURING EVAPORATION GIVE DATA: _____

B. EXPLOSIVE LIMITS (% VOL. AIR): LOWER _____; UPPER _____

C. SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: YES _____; NO _____

D. FIRE POINT °F _____; AUTO IGNITION TEMPERATURE °F _____

E. VAPOR DENSITY _____

F. WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF FIRE OR ABNORMAL TEMPERATURES? _____

G. SUITABLE EXTINGUISHING AGENTS: _____

12. INFORMATION FURNISHED BY:

TITLE:

COMPANY:

ADDRESS:

DATE:

Lester Steinbrecher
Director of Research
Amchem Products Inc
Ambler, Penna
1/20/72

NOTE: INFORMATION IN REGARD TO A MATERIAL'S COMPOSITION WILL BE USED FOR THE PURPOSE OF COMPLYING WITH LOCAL, STATE AND FEDERAL ORDINANCES, LAWS AND CODES, AND REQUIREMENTS OF GOVERNMENTAL AGENCIES.

THE COMPLETED FORM SHOULD BE RETURNED TO PURCHASING, DOUGLAS AIRCRAFT DIVISION, LONG BEACH, CALIF. 90801.

TOXICOLOGICAL AND SAFE HANDLING INFORMATION
(For Use by Medical and Safety Personnel)

1. **PRODUCT:** Alodine Nos. C-5, 600, 1000, 1000L, 1200R Liquid, 1200U Liquid, and 1500
2. **MANUFACTURER:** Amchem Products, Inc., Ambler, Pennsylvania
3. **STORAGE REQUIREMENTS:** Store in a cool, dry area. Do not store near oxidizable or flammable materials.
4. **PROTECTIVE EQUIPMENT:** The use of rubber gloves, aprons, face shields, goggles, etc., is recommended when handling Alodine.
5. **CARE OF BREAKAGE OR LEAKAGE:** Transfer the contents to a clean, polyethylene-lined drum. Discard the broken container after rinsing thoroughly with water. Organic materials such as sawdust, wood, paper, or cloth which have been saturated with Alodine can be readily ignited when dry. Such materials should be thoroughly rinsed, and, if discarded, put in a fireproof container.
6. **FIRST AID:**
 - a. Skin Contact: Treat as for corrosive chemicals. Wash thoroughly with soap and water immediately after contact. Prolonged contact with Alodine, especially in hot, humid weather, can cause dermatitis or chemical burns.
 - b. Eye Contact: Flush with large amounts of water immediately after contact. Call a doctor.
 - c. Inhalation: Prolonged inhalation may cause injury to the mucous membranes and respiratory tract. Adequate exhaust systems, masks, respirators, etc., should be provided.
 - d. Ingestion: Treat as for corrosive chemicals.

7. **PROPERTIES:**

- a. State: Alodine Nos. C-5, 600, and 1000 are powders. The remainder are liquids; their specific gravities are tabulated below:

Alodine No.	Specific Gravity(60°F.)	Alodine No.	Specific Gravity(60°F.)
		1200R Liquid	1.067
		1200U Liquid	1.258
1000L	1.01	1500	1.052

- b. Description: These Alodines are acidic corrosive materials containing chromates and fluorides.

- c. Flammability: Alodines are nonflammable chemicals which are slightly prone to spontaneous heating in moist atmospheres.

The chromates present in Alodines are very strong oxidizing agents and will intensify any fire of which they are a part. Should organic materials such as rags and wood become saturated with the chromates, they may, under certain conditions, undergo spontaneous combustion.

8. EXTINGUISHING AGENTS: The use of water is recommended for Class A or Class B fires containing oxidizing agents.

Date: March 1963



AMCHEM PRODUCTS, Inc.

AMBLER, PENNA. 19002

January 24, 1972

Mr. A.W. Wildanger
Douglas Aircraft Co.
3855 Lakewood Boulevard
Long Beach, California 90801

Dear Mr. Wildanger:

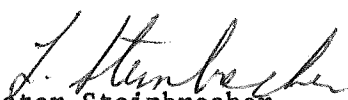
We are enclosing Douglas Aircraft Form 25-1837 (Rev. 8-70) with item 8g completed as per your request.

The Department of Labor Form OSHA-20 may be readily completed with the information you presently have.

If you require additional information, do not hesitate to contact us.

Very truly yours,

AMCHEM PRODUCTS, INC.


Lester Steinbrecher
Director of Research
Metalworking Chemicals Division

LS:lm

Enclosures (2)